**Grade 8**

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| **Unit Title:** Hydrosphere  (Earth Science) | **Unit Title:** Evolution  (Earth Science/Life Science) | **Unit Title:** Microbiology and Disease  (Earth Science/Life Science) | **Unit Title:** Ecosystems  (Life Science) | **Unit Title:** Matter  (Physical Science) | **Unit Title:** Energy  (Physical Science) |
| **Essential Question:**  How does human behavior at the local level affect the entire hydrosphere?  **Enduring Understandings:** The Earth’s water is interconnected; damage to the water supply at the local level will have effects across the hydrosphere.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.E.1.1  8.E.1.2  8.E.1.3  8.E.1.4  **Supporting Standards**  6.E.1.2  6.E.2.2  6.E.2.4  7.E.1.6 | **Essential Question:**  **-**Why is change essential for survival?  -How do living things adapt to their environment?  **Enduring Understandings:** The evolution of organisms and landforms can be seen in evidence of change recorded in fossil records and landforms.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.L.4.1  8.L.4.2  8.E.2.1  8.E.2.2  8.L.2.1  **Supporting Standards**  7.L.2.1  7.L.1.2  7.L.1.4  8.L.3.2 | **Essential Question:**  What is the relationship between the microscopic and macroscopic environment?  **Enduring Understandings:** When a balance is not maintained within an organism, disease can set in and upset the internal environment.  -Though advances in biotechnology provide benefits, there are certain ethical implications.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.L.5.1  8.L.5.2  8.L.1.1  8.L.1.2  **Supporting Standards**  7.L.2.3  8.E.1.4 | **Essential Question:**  How are organisms interconnected?  **Enduring Understandings:** The survival of an organism is dependent on the flow of energy in the ecosystem.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.L.3.1  8.L.3.2  8.L.3.3  **Supporting Standards**  6.L.1.2  6.L.2.1 | **Essential Question:** How does the behavior of matter on the atomic level affect what we see?  **Enduring Understandings:** All matter is composed of atoms that interact with each other in different ways to form everything we see on earth.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.P.1.1  8.P.1.2  8.P.1.3  8.P.1.4  **Supporting Standards**  6.P.2.1  6.P.2.2  6.P.2.3 | **Essential Question:**  Why is conservation necessary for human survival?  **Enduring Understandings:** Conservation of our natural resources is essential to ensure the sustainability of our natural resources.  **Core Standards**  RST.6-8.1 WHST.6-8.1  RST.6-8.2 WHST.6-8.2  RST.6-8.3 WHST.6-8.4  RST.6-8.4 WHST.6-8.5  RST.6-8.5 WHST.6-8.6  RST.6-8.6 WHST.6-8.7  RST.6-8.7 WHST.6-8.8  RST.6-8.8 WHST.6-8.9  RST.6-8.9 WHST.6-8.10  RST.6-8.10  **Priority Standards**  8.P.2.1  8.P.2.2  **Supporting Standards**  6.P.3.1  6.P.3.3  7.P.2.2 |